

# Venture Electric Wheelchair



**D09**



**D09B**

**D09C**

**D09D**

**D09E**



## User's Manual

BE FREE

BE EASY

BE YOUR LIFE



The company reserves the right to make any change and improvement without prior notice.  
It reserves and also the property of models and forbids their reproduction, even partial.

## TABLE OF CONTENTS

Preface.....	2
Feature Of D09 / D09B / D09C / D09D / D09E .....	3-4
Label of the Wheelchair.....	5
Symbols.....	6
Security Guidance.....	7-8
Specifications.....	9
Specification Diagram .....	10
Safe Operation.....	11-12
Precautions.....	12-13
Install Setup.....	14-15
Battery Setup.....	16
Backrest Angle For Model D09C, D09D .....	17
Backrest Angle For Model D09E.....	18
Instruction of Operation.....	19-20
Controller .....	21
Basic operation .....	22
Battery Charging .....	22-24
Free Wheel Mode .....	25
Transporting D09 .....	25-26
Trouble Shooting and Maintenance.....	27-31
Diagnostics.....	32
Guidelines and manufacturer's statement-Electromagnetic Emission.. ..	33-34
Guidelines and manufacturer's statement-Electromagnetic Immunity.. ..	35-37
Warranty .....	38
Warranty Card.....	39

## PREFACE

### ***Dear Users,***

Thank you for choosing the D09 / D09B / D09C / D09D / D09E for your portable wheelchair transportation needs. It is important to read through this manual before operating your D09 / D09B / D09C / D09D / D09E Power Wheelchair to become familiar with its features as well as its limitations and safety information.

You will find the operation and care of your D09 / D09B / D09C / D09D / D09E Power Wheelchair simple and easy.

Disclaimer: Its affiliates and partners cannot be held responsible for personal injury or property damage resulting from the unsafe or improper operation or maintenance of D09 / D09B / D09C / D09D / D09E wheelchair.

As part of our ongoing product improvement initiative, we reserve the right to change specifications and design without notice. As a result, there may be minor differences between your D09 / D09B / D09C / D09D / D09E and accessories and the photos, illustration and instruction in this manual.

We strongly believe that the wheelchair would bring you more convenient and reach the goal of free life to you. If you discover a problem, contact your authorized local Dealer or Distributor for assistance.

### **Recommendation**

Pay attention to “Warning” in the manual is to protect you from any injury.

Unable to follow “Notification” in this manual may result in damage the wheelchair.

FEATURE OF D09 / D09B / D09C / D09D / D09E

D09



D09B



D09C





FEATURE OF D09 / D09B / D09C / D09D / D09E

D09D



D09E

















# LABEL OF THE WHEELCHAIR

## Label of the Wheelchair



Symbols on the label represent the meaning as below

	Manufacturer		Attention, see instruction for use
	Consult instructions for use		Product fulfill WEEE directive
	Date of manufacture		Serial number
	Batch number		Type BF applied part
	Use until year & month (Expiration date)		Water proof grade
	CE mark		UKCA mark
	=Radio frequency fields beyond this point may exceed FCC general public exposure limit		Medical device

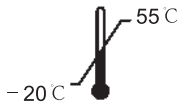
# SYMBOLS



Don't use when packing damaged



Humidity limitation



Temperature limitation



Store in clean & dry place protected from rain, snow, ice, salt and water.



Danger of explosion



Protect from heat and radioactive sources



Keep dry



Package Number



Equipotential



Foot Switch



Switch



CF application part



PCTB



Fuse




Disposal and recycling  
Only authorized recycling companies can recycle parts of this mobility wheelchair



Volume control

**Power** 100~240VAC, 50~60 Hz

**Frequency** 500VA

**DC output** +29.4V  2.0A



# SECURITY GUIDANCE

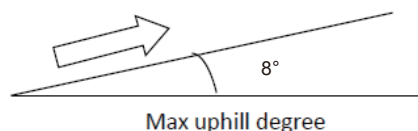
## Security Guidance

- ⚠ The user must perform all of the procedures in this manual.
- ⚠ This product is suitable for users with age between 18 to 75 years old.
- ⚠ Do not drive on public highway.
- ⚠ No over cross any gap which is over 100 mm (3.94") in width.
- ⚠ Never try to overpass obstacle which is over 40 mm (1.57") in height.
- ⚠ Wheelchair is suitable for both outdoor and indoor use, hospital, senior center, family or similar circumstances use only.
- ⚠ The suitable environment of using electric wheelchair:  
Temperature  $-10 \sim +50^{\circ}\text{C}$ , Atmospheric Pressure  $860 \sim 1060\text{hPa}$ , Humidity  $10\% \sim 93\%$ .
- ⚠ Power Source Condition:  
Charging Voltage AC 220V 50Hz, Battery Voltage DC 24V 6Ah, Power of Motor  $\geq 250\text{W}$  environmental conditions that might be harmful to the wheelchair (e.g. inclines greater than 9 degrees, rain, snow, ice, etc.), such as temperature and humidity.
- ⚠ Operate wheelchair after it is under unfolded condition and only allow one person on wheelchair all time.

## Weight Limitations

The wheelchair is tested with simulation of human model at 120 kgs load capacity. Your wheelchair is rated for a maximum weight capacity. Please refer to the product specifications table for this limit. Keep in mind that the maximum weight capacity includes the combined weight of the user and any accessories mounted to the wheelchair. Stay within the specified weight capacity of your wheelchair. Exceeding the weight capacity voids your warranty. We will not be held responsible for injuries and/or property damage resulting from failure to observe weight limitations.

- ⚠ **WARNING ! We are not responsible for any damage and inquiry cause due to over weight.**
- ⚠ **WARNING ! Not to drive on dangerous slopes.**
- ⚠ **WARNING ! Not to drive backwards when going up and down a hill. Max grad ability is uphill  $8^{\circ}$ .**



## SECURITY GUIDANCE

### Statement

#### Indications for use:

**It is a motor driven, indoor and outdoor transportation vehicle with the intended use to provide mobility to a disabled or elderly person limited to a seated position.**

The wheelchair (Models D09 / D09B / D09C / D09D / D09E) has a base with Aluminium alloy frame, two front wheels, two rear wheels, two anti-tip wheels, a seat, an adjustable steering column, a tiller console, an electric motor, an electromagnetic brake, 2 rechargeable Lithium-Ion Batteries with an off-board charger. The movement of the wheelchair is controlled by the rider who operates the throttle lever, speed control dial and handle on the tiller console. The device is installed with an electromagnetic brake that will engage automatically when the wheelchair is not in use and the brake cannot be used manually. The wheelchair only can be operated on the flat road.



Please read the following statement.



Please, read this manual carefully and understand everything clearly before using the Electric wheelchair for the first time.



Please, do not use the wheelchair in any unclear cases, otherwise, the product may be damaged or people may get hurt. If you have questions, please contact us.



Please, pay attention to the warning and cautions in this manual. We are not responsible for any injury and damage caused by wrong use of this product and neglect of the warnings and cautions.



#### Instructions:



**WARNING !** Improper use will cause death or serious injury.



**NOTICE !** Improper use will cause damage of wheelchair.



**ADVISE !** Comply with the manual to keep wheelchair in good condition.



**WARNING !** DO NOT make sharp turns at high speed or on inclines or reverse direction abruptly.



**WARNING !** DO NOT utilize brake release / freewheeling option on any incline without assistance to control motion.



**WARNING !** To avoid danger of suffocation, keep all the plastic bag in the package away from babies and children. Do not use the plastic bag in cribs, beds, carriages or playpens. The plastic bag is not a toy.

# SPECIFICATIONS



**Photo 1. Major Parts Name**

Model	D09 D09B D09C D09D D09E
<b>Material</b>	Aluminum Alloy
<b>Unfold Size</b>	38.8 * 23.6 * 37.4 inches
<b>Fold Size</b>	23.6 * 14.0 * 31.1 inches
<b>Loading Capacity</b>	265 lbs
<b>Motor</b>	Brushless Motor 250W * 2 pcs
<b>Battery</b>	Lithium Battery 24V 6AH * 2 pcs
<b>Max Speed</b>	3.75 mph
<b>Driving Range</b>	12.4 miles
<b>Front Wheels</b>	PU Solid Wheels 7" *1.75"
<b>Rear Wheels</b>	PU Solid Wheels 12.5" *2.25"
<b>Climbing Slope</b>	Max 8°
<b>Charging Time</b>	2~3 hours one battery, 6-8 hours two batteries
<b>Width of Armrest</b>	18.9 inches (D09) , 21.1 inches (D09B) , 18.9 inches (D09C) 21.1 inches (D09D) , 18.9 inches (D09E)
<b>Seat Width</b>	18.9 inches
<b>Seat Depth</b>	16.5 inches
<b>Seat Height</b>	Front 19.7 inches / Back 18.9 inches
<b>Turning Radius</b>	33.5 inches
<b>Net Weight without Battery</b>	55.1 lbs
<b>Net Weight with two Batteries</b>	61.7 lbs
<b>Drive Model</b>	Rear Drive
<b>Braking System</b>	Intelligent Electromagnetic Brake

# SPECIFICATION DIAGRAM

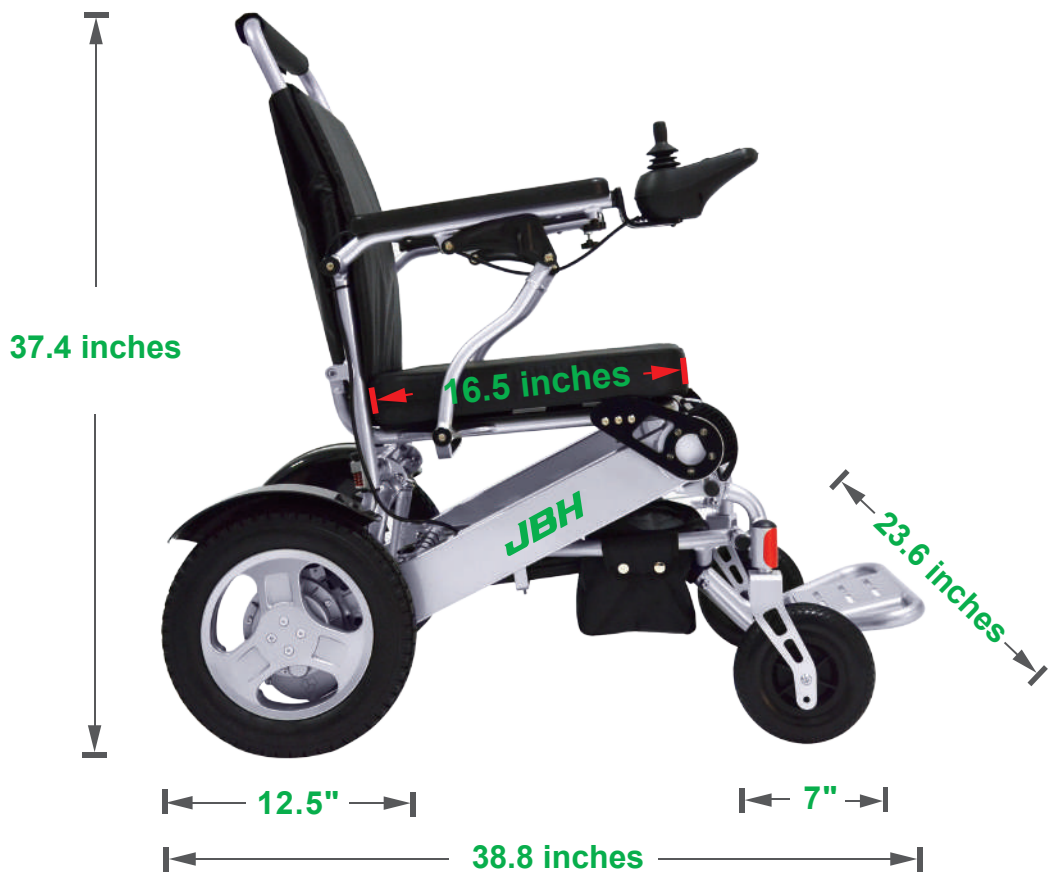
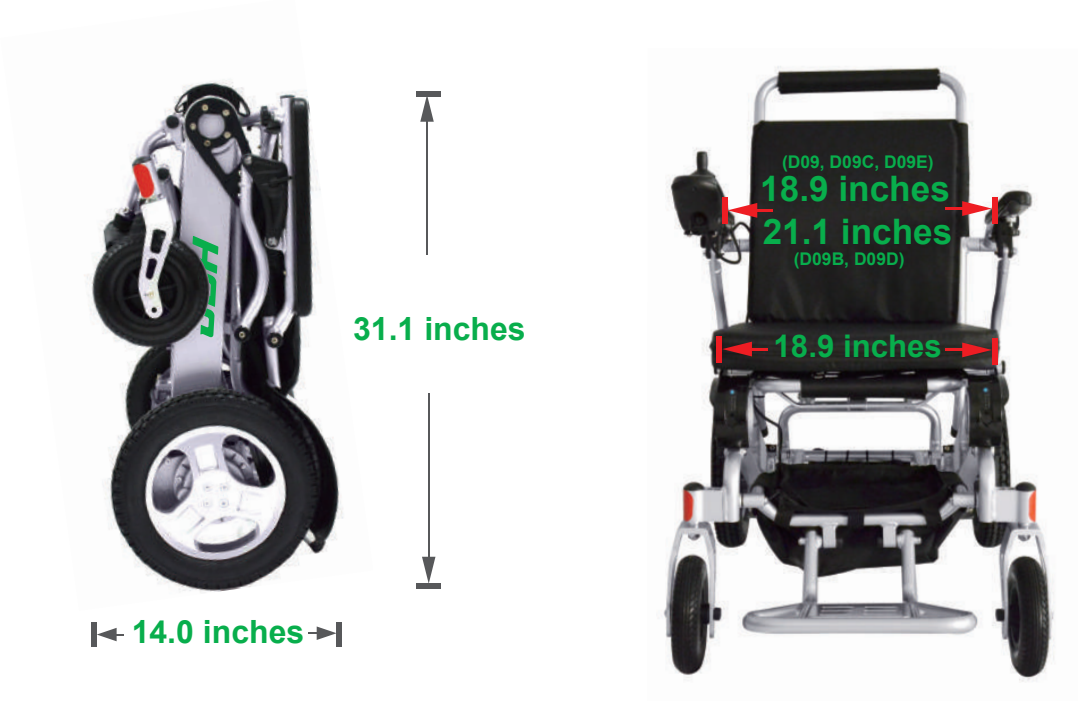


Photo 2. Specification Diagram

# SAFE OPERATION



This is the most important section of manual; how to safely operate the D09 / D09B / D09C / D09D / D09E Wheelchair. Please review this section thoroughly.

## ◎ General Safety

- A. Adjust the D09 / D09B / D09C / D09D / D09E Wheelchair to your personal comfort level as much as possible.
- B. Take your time to learn how the D09 / D09B / D09C / D09D / D09E Wheelchair works in a private space before you begin operating around others.
- C. Practice bending, reaching and transferring in and out of D09 / D09B / D09C / D09D / D09E Power Wheelchair.
- D. Always be aware of your surroundings.
- E. If you are not sure the D09 / D09B / D09C / D09D / D09E can surpass an obstacle, try to find another way around.
- F. Make sure that electronic components such as the control panel, battery charge, and other electronic controlled components avoid moisture. If these components encounter moisture, dry before use.
- G. The D09 / D09B / D09C / D09D / D09E Wheelchair seat is designed for comfort, not specifically for pressure relief; if you suffer from pressure sores, or if you are at risk that they will occur, please consult your doctor.

## ◎ Before Using Your D09 / D09B / D09C / D09D / D09E Power Wheelchair

- (1) Make sure the D09 / D09B / D09C / D09D / D09E Wheelchair is operating smoothly.
- (2) Check for any unusual noises, vibration, or a change in the ease of use; if you detect a problem, get in touch with our service department.
- (3) Failing to maintain your D09 / D09B / D09C / D09D / D09E Wheelchair could increase the risk of injury.

## ◎ Getting Into The D09 / D09B / D09C / D09D / D09E Power Wheelchair

- (1) Before sitting, make sure the D09 / D09B / D09C / D09D / D09E is switched off, this will ensure the D09 / D09B / D09C / D09D / D09E will not move upon touching the joystick.
- (2) Make sure the footrest is down.
- (3) Once on board, make sure your feet are safely on the footrest.

## ◎ Driving The D09 / D09B / D09C / D09D / D09E Power Wheelchair

- (1) Be alert to the danger of motor vehicles on roads or in parking spaces.
- (2) At night or when it is hard to see, use reflective clothing and equipment.
- (3) The D09 / D09B / D09C / D09D / D09E is designed for use on firm, even surface such as concrete, asphalt or indoor floor.
- (4) Do not operate the D09 / D09B / D09C / D09D / D09E Power Wheelchair in sand, loose soil or over rough terrain, which could damage wheels, bearings, axles or motors, or loose fasteners.

## SAFE OPERATION

### ◎ Getting Out Of The D09 / D09B / D09C / D09D / D09E Power Wheelchair

- (1) Make sure to bring the D09 / D09B / D09C / D09D / D09E Power Wheelchair to a complete stop.
- (2) Turn off the D09 / D09B / D09C / D09D / D09E Power Wheelchair to avoid accidentally opening the joystick and moving the wheelchair.
- (3) Raise the armrest so that you can conveniently exit the wheelchair.
- (4) Carefully and safely get out of the seat.

### ◎ Weight Limited-Do Not Exceed or The Warranty Will Be Void

- (1) Never exceed a total weight of 120 kgs, total for the rider plus items carried.
- (2) Exceeding the weight limited is likely to damage the seat, frame or fasteners and may cause severe injury to you or others.

### ◎ When Transporting The Fold Power Wheelchair D09 / D09B / D09C / D09D / D09E

- (1) Never sit in the D09 / D09B / D09C / D09D / D09E Power Wheelchair while in a moving vehicle; an accident or sudden stop may cause you to be thrown from the wheelchair.
- (2) Never transport the D09 / D09B / D09C / D09D / D09E Power Wheelchair in the front seat of a vehicle as it may move and interfere with the driver.
- (3) Always secure the D09 / D09B / D09C / D09D / D09E Power Wheelchair so that it cannot roll or shift when being transported in a vehicle.
- (4) The D09 / D09B / D09C / D09D / D09E Power Wheelchair is NOT approved to be used with any tie down system, which is generally used to transport a seated user in a powered wheelchair in a motor vehicle.

## PRECAUTIONS



### **CAUTION: OPERATE SAFELY**

**Do not operate the Fold Power Wheelchair D09 / D09B / D09C / D09D / D09E in water of any kind.**

**Do not operate the Fold Power Wheelchair D09 / D09B / D09C / D09D / D09E up or down staircase or escalators.**

**Do not operate the Fold Power Wheelchair D09 / D09B / D09C / D09D / D09E while on a moving vehicle such as a bus.**

**Do not lean your body to reach out of the D09 / D09B / D09C / D09D / D09E, causing a balance issue.**

**Do not exceed the weight limited total of 120kgs for rider plus any items.**

**Do turn off the Fold Power Wheelchair D09 / D09B / D09C / D09D / D09E when exiting the chair for safety.**

**Do practice driving the D09 / D09B / D09C / D09D / D09E Portable Electric Wheelchair in a private, enclosed area.**

**Please do not drive the wheelchair on public road and make sure have safety belt buckled before operation.**



# PRECAUTIONS

It is important to perform regular maintenance of your D09 / D09B / D09C / D09D / D09E Power Wheelchair for longevity and warranty eligibility. Even a little cleaning now and again will go a long way to keep your device looking and functioning like new.

Certified repair shops with trained professionals who specialize in electric wheelchairs and scooters will be qualified to perform the service and maintenance on your D09 / D09B / D09C / D09D / D09E Power Wheelchair.

We recommend you inspect your D09 / D09B / D09C / D09D / D09E Power Wheelchair two or three times per year in the following areas:

- (1) Frame: Tighten loose screws as necessary D09 / D09B / D09C / D09D / D09E Power Wheelchair.
- (2) Wheels: Make sure they rotate easily. Significant resistance may require new bearings.
- (3) Armrest: Look for excessive wear or if they are loose.

Replacement parts and more major maintenance issues should be done by a professional.

## ◎ Batteries

- (1) Batteries are special lithium batteries designed specifically for use in the D09 / D09B / D09C / D09D / D09E Power Wheelchair.
- (2) Read all battery instructions before attempting to change or charge batteries.
- (3) When you don't use the D09 / D09B / D09C / D09D / D09E wheelchair for long periods of time, please charge the battery every month to avoid the battery being damaged.

## ◎ Fasteners

Many of the screws, bolts and nuts on the D09 / D09B / D09C / D09D / D09E are special high-strength fasteners. Replacing these fasteners with non-approved parts may cause your D09 / D09B / D09C / D09D / D09E Power Wheelchair to result in faulty operation and may cause harm to you or other people, therefore:

- A. Use fasteners that have been supplied by manufacturer.
- B. Using the correct tools, tighten any fasteners that become loose as soon as possible.

## ◎ Change and Adjustments

Never use non-D09 / D09B / D09C / D09D / D09E Power Wheelchair parts or make changes unless authorized in writing by representative from our company. Doing so will void the warranty and may create a safety hazard.

# INSTALL SETUP

Your D09 / D09B / D09C / D09D / D09E Power Wheelchair will arrive carefully packaged in a cardboard box.

1. Open the top of the box then turn the box on the side for easier pulling out the chair and contents.
2. Total components as bellow:



**Photo 3. Wheelchair Carton Content**

3. To unfold the D09 / D09B / D09C / D09D / D09E, grasp the push bar and pull up while holding down on the seat to unfold the chair and complete the assembly.



**Photo 4. Unfold the chair into a seated position**

## INSTALL SETUP

4. Sit on the chair and Lean backwards to make sure the clip locker which located below the seat to the rear of the D09 / D09B / D09C / D09D / D09E, to lock the seat into place. This step is very important !!!



**Photo 5. Unfold the chair into a seated position**

5. Install the controller into the open slot on the arm of the chair, on the right side (if user needed, can change to left side). tighten knob located under the armrest to secure the controller in place.



**Photo 6. Slide joystick controller into armrest**



**Photo 7. Secure joystick controller knob**

6. Connect the controller wire harness to the CPU wire harness. Take care the line up the pins properly as arrow tip indicate, so that they do not get bent, broken or damaged.



**Note** Make sure connector pins “white arrow” to “white arrow” .

**Photo 8. Connect**

# BATTERY SETUP

## Installing and Removing The Battery

Install the battery

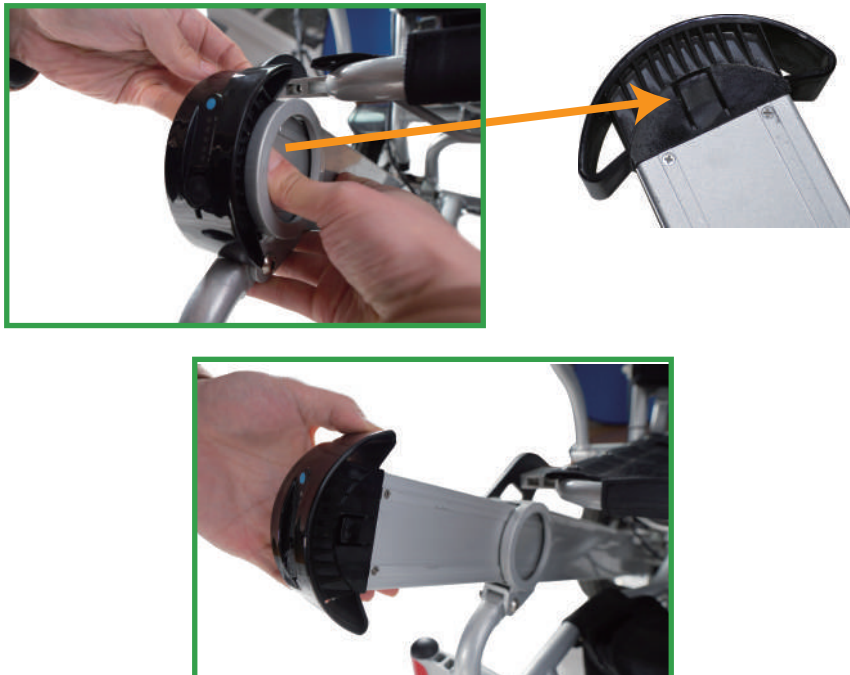
Just put the battery to battery shell on both side of wheelchair, hold the battery handle, insert the other side of the battery into the opening of the battery tube until the battery is all the way inside.



**Photo 9. Installing the Battery**

Remove the battery

Press the buckle on the inner side of the battery box handle with your fingers, and then grab the battery box handle and pull it out.



**Photo 10. Removing the Battery**

## BACKREST ANGLE FOR MODEL D09C, D09D

### Backrest Angle Adjustment Step (For Model D09C, D09D)

Steps:

1. Pull up hand lever of gas lift at back of backrest.
2. At the same time, hold top frame of backrest with one hand and push down.
3. Release hand lever of gas lift when reach preferred angle of backrest.
4. Adjustment of backrest angel is completed.

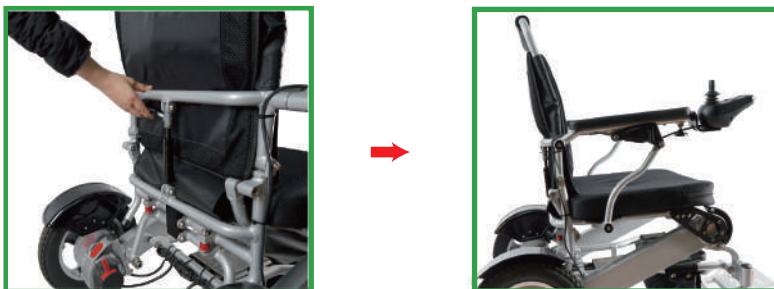


**Photo 11. Backrest Angle Adjustment**

### Return to Backrest Original Position

Steps:

1. Pull up lever of gas lift.
2. Keep on pressing lever till backrest autmatically return to original angel.
3. Backrest angel return to original postiong is completed.



**Photo 12. Backrest Angle Adjustment**

## BACKREST ANGLE FOR MODEL D09E

### Backrest Angle Adjustment Step (For Model D09E)

Steps:

1. Two adjusting sections available for backrest angle adjustment which can be adjusted by hand, while backrest can be tilted forward fully for saving space.



**Photo 13. Backrest Angle Adjustment**




2. Push two red round balls to the center together at the same time, the other hand push or pull the top of back rest to the desired angle.



**Photo 14. Backrest Angle Adjustment**



## INSTRUCTION OF OPERATION

-  Making sure all the attaching parting are fastened properly after any adjustment , repair or maintenance, for avoiding any damage or injury.
-  The wheelchair with certain weight that requires correct way of lifting up to avoid injury. While it is necessary to lift up for moving the wheelchair, it is strong suggested user get off wheelchair first.
-  If user have to stay in wheelchair for lifting up and moving at the same time, make sure safety is fully secured. Do not hold attaching part for lifting and moving wheelchair.

### ◎ Procedures for Wheelchair Folding

1. Hold top of backrest frame with one hand, the other hand lift up the locking control rod at the back of back rest for unlocking.
2. Lift up the front of seat by hand for folding.
3. Push top of back rest and front end of seat together.
4. Fold footrest.



Photo 15. Manual Fold

### ◎ Procedure for Wheelchair Unfolding

1. Unfold footrest first.
2. Hold the top of backrest with one hand, the other hand hold front end of seat.
3. Both hand push away till a “Click” sound heard for completely unfold the wheelchair.



Photo 16. Manual Unfold

# INSTRUCTION OF OPERATION

## Steps of Mounting and Dismounting Wheelchair

### Mounting steps

1. Open one side of armrest to the top.
2. Mount on wheelchair from the side.
3. Both feet step on footrest properly then lower down the armrest.
4. Both hand rest on Buffalo handle bar properly.



**Photo 17. Steps of Mounting on Wheelchair**

### Dismounting step

1. Turn the key to off position.
2. Open one side of armrest to the top.
3. Dismount on wheelchair from the side.
4. Then lower down the armrest.



**Photo 18. Steps of Dismounting Wheelchair**

# CONTROLLER

The D09 / D09B / D09C / D09D / D09E Power Wheelchair is equipped with a joystick style controller. Detail functions as shown:



**Photo 19. Controller**

## ◎ Controller and Driving Tips

1. Take some time in a safe, controlled environment to learn the operation of controller, the speed and the maneuverability of wheelchair.
2. When turning, reduce your speed, which will help you avoid any potential tilting or tipping of wheelchair.
3. Be sure to adjust the speed depending on your environment.
4. To slow down, slowly bring the joystick back toward the initial position.
5. To stop, just bring the joystick back to the initial position.
6. Use extra care when you drive the D09 / D09B / D09C / D09D / D09E in reverse. You may lose control or fall if one of rear wheels hits an object. When operating in reverse:
  - A. Operate the wheelchair slowly and at an even speed.
  - B. Stop often and check to make sure your path is clear of obstacles.

## BASIC OPERATION

Before operating your D09 / D09B / D09C / D09D / D09E, be sure to read all safety information and precautions included in this manual. Operate only in the appropriate environment after you have practiced operation the wheelchair and know how to work the controller.

<b>GET IN</b>	Be certain that the power is OFF before sitting in the seat of Fold Power Wheelchair D09 / D09B / D09C / D09D / D09E, with no light on the controller, make sure the footrest is down before getting into the wheelchair.
<b>POWER ON</b>	Press the Power button, you will ear a beep and a light will indicate that power is on.
<b>TURING &amp;STEERING</b>	Use the joystick style control to steer and turn left, right or go forward and backward.
<b>STOPPING</b>	Simply remove your hand from the joystick to stop.
<b>POWER OFF</b>	When stopping, it is advised that you power OFF the wheelchair to prevent accidents. Press the power button to turn off the wheelchair.
<b>GET OUT</b>	Make sure there is no light on the controller before getting off the wheelchair.

## CHARGING BATTERIES

Your D09 / D09B / D09C / D09D / D09E wheelchair will arrive with full charged batteries, which should last about 18km under normal operation conditions. We recommend that you run the D09 / D09B / D09C / D09D / D09E until the batteries are completely dead the very first time in order to get the most out of the battery life.

### © First charging method

Charge both batteries at the same time via controller charge port.

1. Turn the power off.
2. Plug in the charger to the controller port (see below), please notice connect the charger cable first, then turn the power on.

# CHARGING BATTERIES



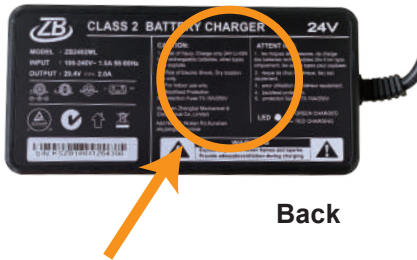
**Photo 20. Charging Port**



## Caution

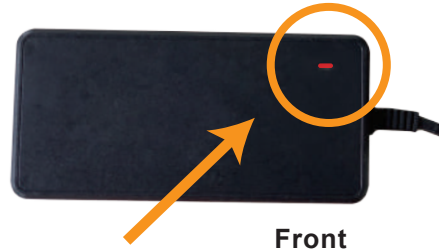
Do not charge continuously over 6 hours through charging port of controller to prevent over charging while two batteries are inserted into both sides of frame. Never charge over 3 hours when it is only one battery in either side of frame.

3. Allow your wheelchair to charge for 6 hours or when the light on the charger turns green, which means your batteries are full charged.
4. Should you require them, the lights and what they mean are located on the back of the charger.



**Back**

Definition of what the light colour mean.



**Front**

### Charger light

Light should come on after plugging in the charger.

**GREEN** colour indicates **fully charged**.

**RED**--battery is **charging**.

### © Second Charging Method:

1. Turn off the main power.
2. Flip open the charger port protector on the front of battery.
3. Use the secondary charger pigtail to adapt the battery charger to plug into the battery directly.



**Photo 21. Charging Batteries**



## Caution

Keep charging time of single battery in 3 hours when it comes to off board charging to avoid over charging.

**Caution** Immediately unplug charger from power source as soon as indicating light on charger turns green.

**Caution** No operation of wheelchair allowed while it is in the process of charging battery. It is required to unplug charger from power source prior to operate wheelchair.

Charging cycles is 500 times for single battery life extend.

# CHARGING BATTERIES

## © More information on the Fold Power Wheelchair D09 / D09B / D09C / D09D / D09E batteries...

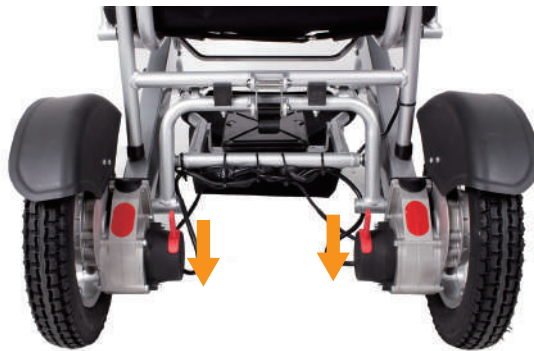
1. The Fold Power Wheelchair comes with two charged 24V 6AH lithium batteries.
2. Never charge over hours for each battery.
3. Turn the main unit's power off while charging.
4. Do not leave children unsupervised near the power wheelchair while it is charging.
5. Do not attempt to open the battery housing.
6. Red means the power is on and the unit is charging; green means the unit is fully charged.  
Note: this information is also located on the back of the charger.
7. When the battery is full charged, remove cable, then take out the DC charging connector and AC input power socket.
8. The average time taken to re-charge workable batteries will vary from 2 to 6 hours depending on the level of usage.
9. Charging Time: 2-3 hours if one battery charging. 6-8 hours if the dual battery on the wheelchair charging through the joystick.
10. Do not charge more than 6 hours.
11. If you do not operate the D09 / D09B / D09C / D09D / D09E for two months, we recommend that you charge the battery for 6 hours before use.
12. Over current protection: this system is included on the wheelchair and will shut off the current from the batteries if triggered, thus shutting the motor down, which will ensure that the motor and battery do not experience and damage.
13. The life cycle of a lithium battery is measured in charging cycles with an average of 500 charge cycles.
14. Check the battery indicator light daily if you use the D09 / D09B / D09C / D09D / D09E Wheelchair frequently.
15. Do not use any battery chargers that have not been certified by manufacturer.
16. If damaged, do not handle the battery without protective gloves and eyewear.
17. If the battery needs to be disposed of, locate the nearest hazardous materials disposal facility, and call them for instructions.
18. Before storing your D09 / D09B / D09C / D09D / D09E for long periods of time, take these steps to maintain the battery
  - a. Full charge the battery before storing.
  - b. Remove the battery from the wheelchair.
  - c. Store the battery in a room temperature environment that is kept dry.
  - d. Avoid temperature extremes and do not allow the battery to freeze.
19. Do not attempt to charge your battery if it is frozen from extreme weather conditions, instead first allow it to thaw for several hours.



## FREE WHEEL MODE

In order to have a care giver push the power wheelchair, it must be put in Free Wheel Mode. This mode disengages the drive mechanism to the wheels, making them free to push manually. We recommend that you turn off the power of wheelchair when in this mode, both for safety and to save battery power.

1. To put the D09 / D09B / D09C / D09D / D09E in Free Wheel Mode, come to a full stop and turn OFF the power on the controller.
2. Push down on the two red levers located on each motor as shown



**Photo 22. Push Down Two Red Levers on Each Motor.**

## TRANSPORTING D09



To transport your D09 / D09B / D09C / D09D / D09E Wheelchair, it is advised that you fold it up following the procedures below.

**Note** Never transport the power wheelchair in a tie up system (electric mode), as the D09 / D09B / D09C / D09D / D09E Power Wheelchair is not compatible with them. Never sit in the wheelchair and be transported in moving vehicle. Do not place the folded power wheelchair in the front seat with driver where it could move and slide.

1. Turn OFF the power from the controller.
2. Remove seat cushion.
3. Press down the backrest and flip the back safety latch down to unlock the frame.

## TRANSPORTING D09



**Photo 23. Folding**

4. Fold the wheelchair.
5. When folded, the seat cross bar can be used to move the wheelchair easily.



**Photo 24. Transporting**

## TROUBLE SHOOTING AND MAINTENANCE

The following represents the most common questions asked about the Fold Power Wheelchair D09/ D09B/ D09C/ D09D/ D09E with regard to every day use; check this helpful guide or the operator' s manual for more information if you have a question about using your power wheelchair.

Question	Possible causes	Answer
Why is there No Power to the wheelchair ?	<ol style="list-style-type: none"> <li>1. Controller system power is not connected.</li> <li>2. Controller system CPU and joystick are not connected.</li> <li>3. Battery power is too low.</li> </ol>	<ol style="list-style-type: none"> <li>1. Connect the battery.</li> <li>2. Ensure all connections between joystick, CPU and battery are securely tightened.</li> <li>3. Charge the battery.</li> </ol>
Why is the wheelchair noisy or vibrating when turning?	<ol style="list-style-type: none"> <li>1. Speed is set too low.</li> <li>2. Motor is damaged.</li> </ol>	<ol style="list-style-type: none"> <li>1. Raise the speed. At low speeds, the motor may sound or feel strained.</li> <li>2. Replace the motor.</li> </ol>
Why can' t I charge the battery?	<ol style="list-style-type: none"> <li>1. Charger light does not turn on.</li> <li>2. Charger light is always green.</li> <li>3. Charging time is stopped before full charge is complete.</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace the charger.</li> <li>2. Battery is not connected, or may need to be replaced.</li> <li>3. Capacity of battery as decrease over time. This is normal.</li> </ol>
Why can' t I connect the controller?	<ol style="list-style-type: none"> <li>1. Connector pins (male) on the controller have become bent and misaligned with connector holes (female) on the CPU connector.</li> </ol>	<ol style="list-style-type: none"> <li>1. Using a small tool, carefully straighten the connector pins (male) on the controller to align with holes (female) on the CPU connector.</li> </ol>

## TROUBLE SHOOTING AND MAINTENANCE



1. The battery of Power Wheelchair is an extremely important part, the battery life determines the service life of the wheelchair. Try to keep the battery saturated after each use, to develop such a habit, it is recommended to conduct a deep discharge every month! If you don't use an Power Wheelchair for a long time, place it in a place to avoid bumps and pull out the battery to reduce discharge. It is also best not to overload in the process of use, which has direct harm to the battery, so it is not recommended to overload and avoid directly affecting the service life of the battery.



**Photo 25. Conduct a deep discharge every month**



2. After the Power Wheelchair is used for a period of time, it is necessary to check the screw loosening of the Power Wheelchair to ensure the connection and operation between the parts and components, and to avoid accidents.



**Photo 26. Check the screw loosening**



3. After being wet by Rain Water. Electric walking vehicle should be wiped with dry rag in time, especially the part containing electrical circuit, so that the electric walking vehicle can keep dry and clean.



**Photo 27. Wiped with dry rag in time**



4. If the Power Wheelchair is on the beach, gravel or wet road, if there is sand, mud or gravel on the tire, it should be cleaned in time to prevent some parts from rusting or the tire running badly, which will affect the beauty and driving comfort and safety.



**Photo 28. Clean in time**

## TROUBLE SHOOTING AND MAINTENANCE

5. Power Wheelchair should avoid scratching seat leather and PU handrails and plastic ornaments with sharp objects, thus affecting the beauty of the whole vehicle.



**Photo 29. Avoid scratching seat leather and PU handrails and plastic ornaments**

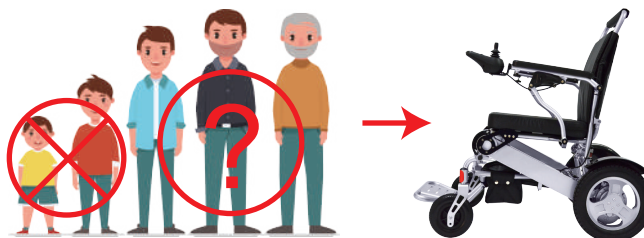


6. Electric walking vehicle should be placed in a place where the sun can not shine, please avoid sunlight, otherwise it is not only harmful to the battery, but also has a direct impact on the service life of plastic parts and stickers of electric walking vehicles.



**Photo 30. Avoid direct sunlight**

7. Power Wheelchair are relatively simple to operate, avoid driving by children or adults without experience in Power Wheelchair. Drivers should avoid unnecessary large-scale body movements or sleep on Power Wheelchair, which may lead to accidental danger. In order to avoid this situation, it is best to unplug the power switch key when not in use. It also avoids the risk of theft.



**Photo 31. Avoid driving by children or adults without experience.**

**Maintenance tool** Simple tool kit is accompanied with Wheelchair in Wheelchair packing, while dry soft fabric and so on are handy and easy to get in the market are not included. The period of maintenance is vary depending on the real use frequency and situation, there is no specific rule.

# TROUBLE SHOOTING AND MAINTENANCE

## Maintenance Frequency

### 1. Daily check

Turn off the controller, check the lever, make sure the lever is not bent and broken, and be sure to return to it when you release it. Check the nibber base of the lever for damage. Just check the base and do not repair it. If you have any questions, please contact your dealer.

### 2. Weekly check

Disconnect the controller connector and charger connector from the battery compartment. Check the connection and for corrosion. If necessary, please contact the dealer.

Make sure that all parts of the controller are tightly connected to the product, do not screw the screws too tightly.

Check the brakes. This inspection must be carried out on a level surface and there must be enough open space around.

Check the brakes:

1. Turn on the controller. After one second, check the battery indicator to make sure the battery is powered.
2. Slowly push the lever forward to guide you to hear the "beep" of the brakes, and immediately release the lever. You must hear the brake operation sound after each lever is pushed for a few seconds:
3. Repeat the operation three times to push the controller to the rear, left and right sides for inspection.

### 3. Monthly check

1. Check the anti-roll wheel for excessive wear and replace the wheel if necessary.
2. Check the wear of the front wheels and drive wheels. If maintenance is required, please contact your dealer.
3. Check the front fork for wear and looseness, which may indicate that adjustment is needed or the bearing needs to be replaced. Please contact the dealer for repair, or replacement.
4. Keep the product clean and do not leave debris, such as food, beverages, residues, etc.

### 4. Storage



This product should be stored in a cool and dry environment. Do not store it at the extreme temperature. If it cannot be stored under the above conditions, it may cause rusting of the wheelchair, and damage to the electrical system. Storage conditions: temperature: -40 ~ +65 degree C; Relative humidity: W80%; Atmospheric pressure: 86kPa ~ 106kPa.



## TROUBLE SHOOTING AND MAINTENANCE

If you discover a problem, require for parts supply ( Such as battery, tire, charger and so on ) contact your authorized local Dealer or Distributor for assistance, alternatively direct contact with manufacturer with the following Contact Information.

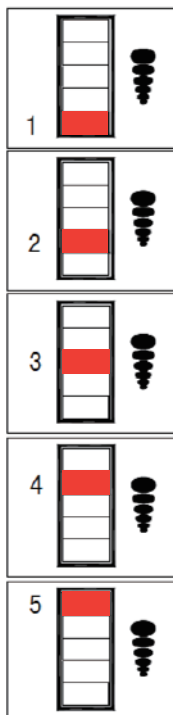
Highly suggest that use original parts from supplier to avoid any potential issues or failure of function of wheelchair, please always consult with authorized local Dealer or Distributor first.

# DIAGNOSTICS

Your controller has an indicator light that, during normal operation, is a steady GREEN. This light also functions as a diagnostic tool by flashing in patterns that indicate problems. It is important to pay attention to these diagnostics in case the power wheelchair must be put out of use for safety reasons until maintenance can be performed.

If the indicator light indicates a fault, turn off the power and then turn on power again. If the fault is not released after turning on power again, the indicator repeats this error message. Please refer to the fault information diagnosis table to help you find possible problems and corresponding solutions.

If the above method still does not help you troubleshoot, please contact your dealer. When communicating with the dealer, provide the specific problems in detail as much as possible.



**1 red light flash** indicates the pressure of battery is not full.

**2 red lights flash** indicates no signal of joystick.

**3 red lights flash** indicates the wheelchair is charging.

**4 red lights flash** indicates moving the joystick when turning on power. Or do not connect the motor wires.

**5 red lights flash** indicates the brake solenoid is not connected or damaged.



**Labeling explain for Electromagnetic compatibility**



**Note !**

- D09/ D09B/ D09C/ D09D/ D09E Power Wheelchair meets the electromagnetic compatibility requirements of IEC60601 standards.
- The user shall install and use according to the EMC information provided in the attached documents.
- The portable and mobile RF communication equipment may affect the performance of electric wheelchair and avoid strong electromagnetic interference when using, such as close to mobile phones, microwave ovens, etc.
- The guide and the manufacturer's statement are detailed in the annex.



**Warning !**

- D09/ D09B/ D09C/ D09D/ D09E Power Wheelchair should not be used close to or stacked with other equipment. If it must be used close to or stacked, it should be observed and verified that it can operate normally under the configuration used.
- In addition to the cables sold by D09/ D09B/ D09C/ D09D/ D09E Power Wheelchair manufacturers as spare parts of internal components, the use of accessories and cables other than those specified may result in increased emission or reduced immunity of D09/ D09B/ D09C/ D09D/ D09E Power Wheelchair.

NO.	Project	Cablelength (m)	Whether or not shielded	Remark
1	POWER CORD	1.3	NO	/
2	CHARGER OUTPUT LINE	1.1	NO	/

## GUIDELINES AND MANUFACTURER'S STATEMENT-ELECTROMAGNETIC EMISSION


### Attachment

<b>Guidelines and manufacturer's statement-Electromagnetic Emission</b>		
<p>D09/ D09B/ D09C/ D09D/ D09E Power Wheelchair is expected to be used in the electromagnetic environment specified below, and the buyer or user of the electric wheelchair vehicle shall ensure that it is used in this electromagnetic environment:</p>		
<b>Launch test</b>	<b>Compliance</b>	<b>Electromagnetic environment-Guidelines</b>
IEC60601 RFlaunch	1	D09/ D09B/ D09C/ D09D/ D09E Power Wheelchair only uses RF energy for its internal functions. Therefore, its RF emission is very low and may not cause any interference to the nearby electronic equipment.
IEC60601 RFlaunch	B	D09/ D09B/ D09C/ D09D/ D09E Power Wheelchair is suitable for domestic use and all facilities directly connected to the public low-voltage powersupply network for domestic use.
IEC60601 Harmonic emission	A	
IEC60601 Voltage fluctuation/ flicker emission	FIT	

## GUIDELINES AND MANUFACTURER'S STATEMENT-ELECTROMAGNETIC IMMUNITY

<b>Guidelines and manufacturer's statement-Electromagnetic Immunity</b>			
D09/ D09B/ D09C/ D09D/ D09E Power Wheelchair is expected to be used in the electromagnetic environment specified below, and the buyer or user of the electric wheelchair vehicle shall ensure that it is used in this electromagnetic environment.			
<b>Anti-interference measurement</b>	<b>IEC60601 Test Level</b>	<b>Coincidence level</b>	<b>Electromagnetic environment-Guidelines</b>
Electrostatic discharge (ESD) ISO7176 IEC60601	$\pm 6$ kV Contact discharge $\pm 8$ kV Air discharge	$\pm 6$ kV Contact discharge $\pm 8$ kV Air discharge	The floor should be wood, concrete or ceramic tile, and if the floor is covered with synthetic materials, the relative humidity should be at least 30%.
Electrical fast transient burst ISO7176 IEC60601	$\pm 2$ kV To the power cord	$\pm 2$ kV To the power cord	The power supply in the hospital or in the commercial environment should be of typical quality.
Surge ISO7176 IEC60601	$\pm 1$ kV Differential-mode voltage $\pm 2$ kV Common mode voltage	$\pm 1$ kV Differential-mode voltage	The power supply in the hospital or in the commercial environment should be of typical quality.
Voltage sag, short interruption and voltage variation on power in put line  ISO7176 IEC60601	$<5\% U_T$ , Last for 0.5 circuits (on $U_T$ , $>95\%$ sag) $40\% U_T$ , Last for 1 circuit (on $U_T$ , $60\%$ sag) $70\% U_T$ , Last for 25 circuits (on $U_T$ , $30\%$ sag) $<5\% U_T$ , Last for 5 seconds (on $U_T$ , $>95\%$ sag)	$<5\% U_T$ , Last for 0.5 circuits (on $U_T$ , $>95\%$ sag) $40\% U_T$ , Last for 1 circuit (on $U_T$ , $100\%$ sag) $70\% U_T$ , Last for 25 circuits (on $U_T$ , $30\%$ sag) $<5\% U_T$ , Last for 5 seconds (on $U_T$ , $>95\%$ sag)	The power supply in the hospital or in the commercial environment should be of typical quality. If the users of electric wheelchair need continuous operation during power interruption, uninterruptible power supply or battery power supply is recommended.
Power frequency magnetic field (50/60Hz) ISO7176 IEC60601	30 A/m	30 A/m	The power frequency magnetic field should have the horizontal characteristics of power frequency magnetic field in typical commercial or hospital environment.
Note: $U_T$ refers to the AC network voltage before the test voltage is applied			

## GUIDELINES AND MANUFACTURER'S STATEMENT-ELECTROMAGNETIC IMMUNITY

<p>D09/ D09B/ D09C/ D09D/ D09E Power Wheelchair is expected to be used in the following specified electromagnetic environment, and the purchasers or users of NPL001、NPL002、NPL003 electric wheelchairs shall ensure that it is used in this electromagnetic environment.</p>			
Anti-interference measurement	IEC60601 Test Level	Coincidence level	Electromagnetic environment-Guidelines
<p>RFconduction ISO7176 IEC60601</p>	<p>3 Vrms 150 kHz to 80 MHz</p>	<p>3 Vrms</p>	<p>Portable and mobile RF communication equipment shall not be used closer to any part of the electric wheelchair, including cables, than the recommended isolation distance. The distance shall be calculated by the formula corresponding to the transmitter frequency.</p> <p>Recommended isolation distance</p> <p><math>d = 1.2 \sqrt{P}</math></p> <p><math>d = 1.2 \sqrt{P}</math>    80 MHz to 800 MHz</p> <p><math>d = 2.3 \sqrt{P}</math>    800 MHz to 1.0GHz</p> <p><math>d = 0.2 \sqrt{P}</math>    26 MHz to 800 MHz</p> <p><math>d = 0.4 \sqrt{P}</math>    800 MHz to 2.5 GHz</p> <p>Where P is the maximum output rated power of the transmitter provided by the transmitter manufacturer, in watts (W), and d is the recommended isolation distance in meters (m).<sup>B</sup></p> <p>The field strength of the fixed RF-transmitter is determined by surveying the electromagnetic field A. in each frequency range, B should be lower than the coincidence level.</p> <p>Interference may occur near equipment marked with the following symbols.</p> <div style="text-align: center;">  </div>
<p>RF radiation (charger) ISO7176 IEC60601</p>	<p>3 V/m 80 MHz to 1.0 GHz</p>	<p>3 V/m</p>	
<p>RF radiation (wheelchair) ISO7176 IEC60601</p>	<p>20 V/m 26 MHz to 2.5 GHz</p>	<p>20 V/m</p>	
<p>Note 1: at the frequency of 80MHz and 800MHz, the formula of higher frequency band is adopted.</p>			
<p>Note 2: these guidelines may not be suitable for all cases where electromagnetic propagation is affected by absorption and reflection of buildings, objects and human bodies.</p>			



## GUIDELINES AND MANUFACTURER'S STATEMENT-ELECTROMAGNETIC IMMUNITY

- a If the fixed transmitting airport is strong, such as the base station of wireless (cellular / cordless) telephone and ground mobile radio, amateur radio, am (amplitude modulation) and FM (frequency modulation) radio broadcast and television broadcast, and the field strength of the place where NPL001、NPL002、NPL003 electric wheelchairs are located is higher than the RF coincidence level of the above application, then the electric wheelchair should be observed to verify It can operate normally. If abnormal performance is observed, supplementary measures may be necessary, such as reorientation or repositioning of the electric wheelchair.
- b The field strength should be less than 3 V / m in the whole frequency range of 150 kHz to 80 MHz.

Recommended separation distance between portable and mobile RF communication equipment and electric wheelchair.

D09/ D09B/ D09C/ D09D/ D09E Power Wheelchair is expected to be used in an electromagnetic environment where radiated RF disturbances are controlled. According to the maximum output power of communication equipment, the buyer or user of electric wheelchair can prevent electromagnetic interference by maintaining the minimum distance between portable and mobile RF communication equipment (transmitter) and electric wheelchair.

Rated maximum output power of transmitter/W	Isolation distance corresponding to different frequencies of transmitter/m				
	150 kHz ~ 80 MHz— $d= 1.2 \sqrt{P}$	80MHz ~ 800 MH (Charger) $d= 1.2 \sqrt{P}$	800 MHz ~ 1.0 GHz (Charger) $d= 2.3 \sqrt{P}$	26MHz ~ 800 MHz (Wheelchair) $d= 0.2 \sqrt{P}$	800 MHz ~ 2.5 GHz (Wheelchair) $d= 0.4 \sqrt{P}$
0.01	0.12	0.12	0.23	0.02	0.04
0.1	0.38	0.38	0.73	0.06	0.13
1	1.2	1.2	2.3	0.2	0.4
10	3.8	3.8	7.3	0.63	1.26
100	12	12	23	2	4

For the rated maximum output power of the transmitter not listed in the above table, the recommended isolation distance D, in meters (m), can be determined by the formula in the corresponding transmitter frequency column, where P is the maximum output rated power of the transmitter provided by the transmitter manufacturer, in watt (W).

Note 1: at 80 MHz and 800 MHz frequencies, the formula for the higher frequency range is used.

Note 2: these guidelines may not be suitable for all cases where electromagnetic propagation is affected by absorption and reflection of buildings, objects and human bodies.

## WARRANTY

The purchaser of this product is entitled to a limited warranty as offered by our company, and its affiliates on the following components and timeframes:

- ✘ Chair frame: 3 years
- ✘ Motors: 1 year
- ✘ Controller and CPU system: 1 year
- ✘ Battery: 6 months
- ✘ Wear parts: 3 months

Includes tires, seat and back rest, armrests, and support straps.

This warranty is valid for the replacement of dysfunctional parts only. Any parts under warranty will be replaced and shipped to your door. Any service and labor fees, if applicable, to replace parts under warranty must be paid by the user.

Due to its straightforward design, most parts can be easily exchanged by the end user without a professional service tech required. However, it is always recommended you seek professional help for maintenance and service, to make sure the work is done properly.

The warranty does not cover:

1. Products damaged by user negligence.
2. Products damaged accidentally.
3. Products damaged intentionally.
4. Products that have been subjected to negligence.
5. Products that have been subjected to abuse.
6. Products that have been improperly stored.
7. Products that have been improperly handled.
8. Products that have been improperly operated.
9. Products that have experienced general misuse.
10. Products that have been modified in an unauthorized, unapproved way.

Warranty is non-transferable and only valid for the original wheelchair purchaser.

The company reserves the right to make any change and improvement without prior notice. It reserves and also the property of models and forbids their reproduction, even partial.

# WARRANTY CARD

## Warranty Registration Card

<b>User Name</b>		<b>ID No.</b>	
<b>Address</b>		<b>Phone No.</b>	
<b>Model</b>		<b>Product No.</b>	

<b>Purchasing Date</b>	(Month) (Day) (Year)
<b>Manufacturer</b>	
<b>Distributor</b>	(Stamp or signature)
<b>Distributor</b> (Phone, Address)	







**D09**

